

HIGHLY ERODIBLE SOIL MAP UNIT LIST FOR
DOUGLAS COUNTY
C = .20 R = 110

APRIL 8, 1993

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	HELIC CATEGORY
MN0186	AAA	AASTAD CLAY LOAM, 1 TO 3 PERCENT SLOPES	5	0.24	48	2	100	0.20	NHEL
MN8001	AD	ALLUVIAL LAND	5	0.24	86	1	100	0.13	NHEL
MN0050	AO	ARVESON SANDY CLAY LOAM	4	0.17	86	1	100	0.13	NHEL
ND0007	ASA	ARVILLA SANDY LOAM, 0 TO 2 PERCENT SLOPES	3	0.20	86	1	100	0.13	NHEL
ND0007	ASB	ARVILLA SANDY LOAM, 2 TO 6 PERCENT SLOPES	3	0.20	86	4	100	0.40	NHEL
ND0007	ASC	ARVILLA SANDY LOAM, 6 TO 12 PERCENT SLOPES	3	0.20	86	9	100	1.25	PHEL*
ND0007	ATA	ARVILLA SANDY LOAM, THICK SOLUM, 0 TO 3 PERCENT SLOPES	3	0.20	86	2	100	0.20	NHEL
ND0219	BAB2	BARNES LOAM, 2 TO 6 PERCENT SLOPES, ERODED	5	0.28	48	4	125	0.44	NHEL
ND0219	BAC2	BARNES LOAM, 6 TO 12 PERCENT SLOPES, ERODED	5	0.28	48	9	125	1.35	PHEL**
MN0087	BLB2***	BARNES-LANGHEI LOAMS, 2 TO 6 PERCENT SLOPES, ERODED	5	0.32	86	4	125	0.44	NHEL
ND0219	BLB2	BARNES-LANGHEI LOAMS, 2 TO 6 PERCENT SLOPES, ERODED	5	0.28	48	4	-	-	---
MN0087	BLC2***	BARNES-LANGHEI LOAMS, 6 TO 12 PERCENT SLOPES, ERODED	5	0.32	86	9	125	1.35	PHEL*
ND0219	BLC2	BARNES-LANGHEI LOAMS, 6 TO 12 PERCENT SLOPES, ERODED	5	0.28	48	9	-	-	---
MN0136	BMA	BELTRAMI LOAM, 1 TO 3 PERCENT SLOPES	5	0.32	56	2	100	0.20	NHEL
MN0259	BP	BROPHY PEAT	5	38		1	100	0.13	NHEL
MN0468	CA	CARLOS MUCK	1	134		1	100	0.13	HEL (WIND)
MI0392	CC	CATHRO MUCK	5	134		1	100	0.13	NHEL
MN0451	CH	CATHRO MUCK, SANDY SUBSOIL VARIANT	5	134		1	100	0.13	NHEL
MN0156	CLB2	CLARION LOAM, 2 TO 6 PERCENT SLOPES, ERODED	5	0.24	48	4	125	0.44	NHEL
MN0156	CLC2	CLARION LOAM, 6 TO 12 PERCENT SLOPES, ERODED	5	0.24	48	9	125	1.35	PHEL**
MN0262	CMA	CLONTARF SANDY LOAM, 0 TO 2 PERCENT SLOPES	4	0.20	86	1	100	0.13	NHEL
ND0295	CO	COLVIN SILT LOAM	5	0.32	86	1	100	0.13	NHEL
ND0001	CP	COLVIN SILT LOAM, DEPRESSIONAL	5	0.32	86	1	100	0.13	NHEL
MN0067	DAA	DARNEN LOAM, 1 TO 4 PERCENT SLOPES	5	0.28	48	2	100	0.20	NHEL
MN0009	DD	DASSEL SANDY LOAM	5	0.20	86	1	100	0.13	NHEL
MN0386	DE	DASSEL SANDY LOAM, DEPRESSIONAL	4	0.20	86	1	100	0.13	NHEL
MN0263	DOA	DORSET SANDY LOAM, 0 TO 2 PERCENT SLOPES	3	0.20	86	1	100	0.13	NHEL
MN0263	DOB	DORSET SANDY LOAM, 2 TO 6 PERCENT SLOPES	3	0.20	86	4	100	0.40	NHEL
MN0263	DOC	DORSET SANDY LOAM, 6 TO 12 PERCENT SLOPES	3	0.20	86	9	100	1.25	PHEL*
MN0263	DPA	DORSET SANDY LOAM, THICK SOLUM, 0 TO 2 PERCENT SLOPES	3	0.20	86	1	100	0.13	NHEL
MN0263	DPB	DORSET SANDY LOAM, THICK SOLUM, 2 TO 6 PERCENT SLOPES	3	0.20	86	4	100	0.40	NHEL
MN0263	DPC	DORSET SANDY LOAM, THICK SOLUM, 6 TO 12 PERCENT SLOPES	3	0.20	86	9	100	1.25	PHEL*
MN0052	DV	DOVRAY MUCKY SILTY CLAY	5	0.28	86	1	100	0.13	NHEL
MN0069	FA	FLOM SILTY CLAY LOAM	5	0.28	38	1	100	0.13	NHEL
MN0499	FE	FORADA LOAM, DEPRESSIONAL	4	0.28	56	1	100	0.13	NHEL
MN0070	FD	FORADA SANDY LOAM	4	0.20	86	1	100	0.13	NHEL
MN0070	FF	FORADA SANDY LOAM, SANDY SUBSOIL	4	0.20	86	1	100	0.13	NHEL
ND0137	FMC2	FORMAN CLAY LOAM, 6 TO 12 PERCENT SLOPES, ERODED	5	0.28	48	9	125	1.35	PHEL**
MN0186	FOB***	FORMAN-AASTAD CLAY LOAMS, 1 TO 5 PERCENT SLOPES	5	0.24	48	-	-	-	---
ND0137	FOB	FORMAN-AASTAD CLAY LOAMS, 1 TO 5 PERCENT SLOPES	5	0.28	48	3	125	0.30	NHEL
MN0187	FU	FULDA SILTY CLAY	5	0.28	86	1	100	0.13	NHEL
MN0137	GOA	GONVICK LOAM, 1 TO 3 PERCENT SLOPES	5	0.24	48	2	100	0.20	NHEL
MN0130	HA	HANGAARD SANDY LOAM	2	0.20	86	1	100	0.13	HEL (WIND)
MN0266	HHA	HANTHO SILT LOAM, 1 TO 3 PERCENT SLOPES	5	0.28	56	2	100	0.20	NHEL
MN0606	LA	LAKE BEACHES, SANDY	5	0.17	134	1	100	0.13	NHEL
MN0606	LB	LAKE BEACHES, LOAMY	5	0.20	86	1	100	0.13	NHEL
MN0087	LEF	LANGHEI LOAM, 18 TO 40 PERCENT SLOPES	5	0.32	86	29	100	7.60	HEL
MN0087	LGD2***	LANGHEI-BARNES LOAMS, 12 TO 18 PERCENT SLOPES, ERODED	5	0.32	86	15	100	2.50	HEL
ND0219	LGD2	LANGHEI-BARNES LOAMS, 12 TO 18 PERCENT SLOPES, ERODED	5	0.28	48	15	-	-	---
MN0080	LKD2	LANGHEI-WAUKON LOAMS, 12 TO 18 PERCENT SLOPES, ERODED	5	0.24	48	15	-	-	---
MN0087	LKD2***	LANGHEI-WAUKON LOAMS, 12 TO 18 PERCENT SLOPES, ERODED	5	0.32	86	15	100	2.50	HEL

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	HEL/C CATEGORY
MN0080	LKE	LANGHEI-WAUKON LOAMS, 18 TO 24 PERCENT SLOPES	5	0.24	48	21	-	-	---
MN0087	LKE***	LANGHEI-WAUKON LOAMS, 18 TO 24 PERCENT SLOPES	5	0.32	86	21	100	4.40	HEL
MN0080	LWD	LANGHEI-WAUKON-SIOUX COMPLEX, 12 TO 25 PERCENT SLOPES	5	0.24	48	18	-	-	---
MN0087	LWD***	LANGHEI-WAUKON-SIOUX COMPLEX, 12 TO 25 PERCENT SLOPES	5	0.32	86	18	100	3.50	HEL
ND0365	LWD	LANGHEI-WAUKON-SIOUX COMPLEX, 12 TO 25 PERCENT SLOPES	5	0.10	-	18	-	-	---
ND0012	MAA	MADDOCK FINE SAND, 0 TO 2 PERCENT SLOPES	5	0.15	250	1	100	0.13	HEL (WIND)
ND0012	MAB	MADDOCK FINE SAND, 2 TO 6 PERCENT SLOPES	5	0.15	250	4	100	0.40	HEL (WIND)
ND0012	MAC	MADDOCK FINE SAND, 6 TO 12 PERCENT SLOPES	5	0.15	250	9	100	1.25	HEL (WIND)
NE0504	MH	MARSH	-	-	-	1	100	0.13	NHEL
MN0103	MM	MARYSLAND LOAM	4	0.28	86	1	100	0.13	NHEL
MN0320	MO	MARYSLAND LOAM, DEPRESSIONAL	4	0.28	86	1	100	0.13	NHEL
MN0274	MP	MILLERVILLE MUCKY PEAT	4	-	56	1	100	0.13	NHEL
MN0138	NEB	NEBISH LOAM, 2 TO 6 PERCENT SLOPES	5	0.32	56	4	125	0.44	NHEL
MN0138	NEB2	NEBISH LOAM, 2 TO 6 PERCENT SLOPES, ERODED	5	0.32	56	4	125	0.44	NHEL
MN0138	NEC	NEBISH LOAM, 6 TO 12 PERCENT SLOPES	5	0.32	56	9	125	1.35	PHEL*
MN0138	NEC2	NEBISH LOAM, 6 TO 12 PERCENT SLOPES, ERODED	5	0.32	56	9	125	1.35	PHEL*
MN0138	NED	NEBISH LOAM, 12 TO 18 PERCENT SLOPES	5	0.32	56	15	100	2.50	HEL
MN0138	NEE	NEBISH LOAM, 18 TO 24 PERCENT SLOPES	5	0.32	56	21	100	4.40	HEL
MN0138	NBB	NEBISH SANDY LOAM, 2 TO 6 PERCENT SLOPES	5	0.24	86	4	125	0.44	NHEL
MN0138	NBC	NEBISH SANDY LOAM, 6 TO 12 PERCENT SLOPES	5	0.24	86	9	125	1.35	PHEL*
MN0138	NBD	NEBISH SANDY LOAM, 12 TO 18 PERCENT SLOPES	5	0.24	86	15	100	2.50	HEL
MN0138	NHB***	NEBISH-DORSET COMPLEX, 2 TO 6 PERCENT SLOPES	5	0.32	56	4	125	0.44	NHEL
MN0263	NHB	NEBISH-DORSET COMPLEX, 2 TO 6 PERCENT SLOPES	3	0.20	86	4	125	0.44	NHEL
MN0138	NHC	NEBISH-DORSET COMPLEX, 6 TO 12 PERCENT SLOPES	5	0.32	56	9	-	-	---
MN0263	NHC	NEBISH-DORSET COMPLEX, 6 TO 12 PERCENT SLOPES	3	0.20	86	9	125	1.35	PHEL*
MN0155	NLA	NICOLLET CLAY LOAM, 1 TO 4 PERCENT SLOPES	5	0.24	48	2	100	0.20	NHEL
MN0214	NYB	NYMORE LOAMY SAND, 2 TO 6 PERCENT SLOPES	5	0.17	134	4	100	0.40	NHEL
MN0214	NYC	NYMORE LOAMY SAND, 6 TO 18 PERCENT SLOPES	5	0.17	134	12	100	1.80	PHEL*
MN0278	OSA	OSAKIS LOAM, 0 TO 3 PERCENT SLOPES	3	0.28	56	2	100	0.20	NHEL
MN0075	QU	QUAM MUCKY SILTY CLAY LOAM	5	0.28	38	1	100	0.13	NHEL
MI0391	RM	RIFLE MUCKY PEAT	5	-	56	1	100	0.13	NHEL
MN0077	ROB	ROTHSAY SILT LOAM, 2 TO 6 PERCENT SLOPES	5	0.32	56	4	125	0.44	NHEL
MN0128	SE	SEELYEVILLE MUCK	5	-	134	1	100	0.13	NHEL
MN0139	SH	SHOOKER LOAM	5	0.32	56	1	100	0.13	NHEL
SD0054	SLA	SINAI CLAY, 0 TO 2 PERCENT SLOPES	5	0.28	86	1	100	0.13	NHEL
SD0054	SLB	SINAI CLAY, 2 TO 6 PERCENT SLOPES	5	0.28	86	4	150	0.47	NHEL
MN0619	SMB	SIOUX LOAMY COARSE SAND, 0 TO 6 PERCENT SLOPES	5	0.17	134	3	100	0.29	NHEL
MN0619	SMC	SIOUX LOAMY COARSE SAND, 6 TO 12 PERCENT SLOPES	5	0.17	134	9	100	1.25	NHEL
ND0365	SOE	SIOUX GRAVELLY LOAMY COARSE SAND, 12 TO 35 PERCENT SLOPES	5	0.10	-	24	100	5.60	PHEL*
ND0365	SOC	SIOUX GRAVELLY LOAMY COARSE SAND, 2 TO 12 PERCENT SLOPES	5	0.10	-	7	100	0.78	NHEL
MN0078	SVA	SVERDRUP LOAM, THICK SOLUM, 0 TO 3 PERCENT SLOPES	4	0.28	56	2	100	0.20	NHEL
MN0078	SPA	SVERDRUP SANDY LOAM, 0 TO 2 PERCENT SLOPES	4	0.20	86	1	100	0.13	NHEL
MN0078	SPB	SVERDRUP SANDY LOAM, 2 TO 6 PERCENT SLOPES	4	0.20	86	4	100	0.40	NHEL
MN0078	SPC	SVERDRUP SANDY LOAM, 6 TO 12 PERCENT SLOPES	4	0.20	86	9	100	1.25	PHEL**
ND0229	TO	TONKA LOAM	5	0.32	48	1	100	0.13	NHEL
MN0452	US	URNESS MUCKY SILT LOAM, PEATY SUBSOIL VARIANT	5	-	86	1	100	0.13	NHEL
MN0079	UP	URNESS MUCKY SILTY CLAY LOAM	5	0.28	86	1	100	0.13	NHEL
MN0055	VAA	VALLERS CLAY LOAM, 0 TO 3 PERCENT SLOPES	5	0.28	86	2	100	0.20	NHEL
MN0080	WAB	WAUKON LOAM, 2 TO 6 PERCENT SLOPES	5	0.24	48	4	125	0.44	NHEL
MN0080	WAB2	WAUKON LOAM, 2 TO 6 PERCENT SLOPES, ERODED	5	0.24	48	4	125	0.44	NHEL
MN0080	WAC	WAUKON LOAM, 6 TO 12 PERCENT SLOPES	5	0.24	48	9	125	1.35	PHEL**
MN0080	WAC2	WAUKON LOAM, 6 TO 12 PERCENT SLOPES, ERODED	5	0.24	48	9	125	1.35	PHEL**
MN0080	WAD	WAUKON LOAM, 12 TO 18 PERCENT SLOPES	5	0.24	48	15	100	2.50	HEL
MN0080	WAD2	WAUKON LOAM, 12 TO 18 PERCENT SLOPES, ERODED	5	0.24	48	15	100	2.50	HEL
MN0080	WAE	WAUKON LOAM, 18 TO 24 PERCENT SLOPES	5	0.24	48	21	100	4.40	HEL
MN0080	WCB	WAUKON CLAY LOAM, 2 TO 6 PERCENT SLOPES	5	0.24	48	4	125	0.44	NHEL

RECORD NUMBER	MAP UNIT SYMBOL	MAP UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	HELIC CATEGORY
MN0080	WCC2	WAUKON CLAY LOAM, 6 TO 12 PERCENT SLOPES, ERODED	5	0.24	48	9	125	1.35	PHEL**
MN0080	WLB2***	WAUKON-LANGHEI LOAMS, 2 TO 6 PERCENT SLOPES, ERODED	5	0.24	48	4	125	0.44	NHEL
MN0087	WLB2	WAUKON-LANGHEI LOAMS, 2 TO 6 PERCENT SLOPES, ERODED	5	0.32	86	4	125	0.44	NHEL
MN0080	WLC2***	WAUKON-LANGHEI LOAMS, 6 TO 12 PERCENT SLOPES, ERODED	5	0.24	48	9	-	-	---
MN0087	WLC2	WAUKON-LANGHEI LOAMS, 6 TO 12 PERCENT SLOPES, ERODED	5	0.32	86	9	125	1.35	PHEL*
MN0080	WSB2***	WAUKON-LANGHEI-SIOUX COMPLEX, 2 TO 6 PERCENT SLOPES, ERODED	5	0.24	48	4	-	-	---
MN0087	WSB2	WAUKON-LANGHEI-SIOUX COMPLEX, 2 TO 6 PERCENT SLOPES, ERODED	5	0.32	86	4	125	0.44	NHEL
ND0365	WSB2	WAUKON-LANGHEI-SIOUX COMPLEX, 2 TO 6 PERCENT SLOPES, ERODED	5	0.17	134	4	-	-	---
MN0080	WSC2***	WAUKON-LANGHEI-SIOUX COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	0.24	48	9	-	-	---
MN0087	WSC2	WAUKON-LANGHEI-SIOUX COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	0.32	86	9	125	1.35	PHEL*
ND0365	WSC2	WAUKON-LANGHEI-SIOUX COMPLEX, 6 TO 12 PERCENT SLOPES, ERODED	5	0.17	134	9	-	-	---
MN0077	ZOC2***	ZELL-ROTHSAY SILT LOAMS, 6 TO 12 PERCENT SLOPES, ERODED	5	0.32	56	9	-	-	---
SD0196	ZOC2	ZELL-ROTHSAY SILT LOAMS, 6 TO 12 PERCENT SLOPES, ERODED	5	0.32	86	9	125	1.35	PHEL*

HIGHLY ERODIBLE LAND CLASSIFICATION

NHEL = NOT HIGHLY ERODIBLE LAND

PHEL = POTENTIALLY HIGHLY ERODIBLE LAND AND REQUIRES A FIELD VISIT TO DETERMINE A REPRESENTATIVE SLOPE PERCENT AND LENGTH FOR FSA PURPOSES.

HEL = HIGHLY ERODIBLE LAND

* THESE PHEL MAP UNITS ARE CONSIDERED HEL BASED ON TYPICAL SLOPE PERCENTAGE AND LENGTH FOR DETERMINATIONS MADE IN THE OFFICE.

** THESE PHEL MAP UNITS ARE CONSIDERED NHEL BASED ON TYPICAL SLOPE PERCENTAGES AND LENGTH FOR DETERMINATIONS MADE IN THE OFFICE.

*** USE THE MOST LIMITING SOIL IN THE COMPLEX TO DETERMINE THE RATING. ONLY ONE RATING IS GIVEN FOR A COMPLEX.

HELIC FOR WIND EROSION IS BASED ON THE C X I DIVIDED BY T IS EQUAL TO OR GREATER THAN 8.

HELIC FOR WATER EROSION IS BASED ON THE R X K X LS DIVIDED BY T IS EQUAL TO OR GREATER THAN 8.